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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-05-02-28** **Date: 04-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of Shettyhalli Colony Balance cross roads in Ward No.12 Shettyhalli, in Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/322/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-28 /05
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	03-05-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.394	548	661	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	553	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.882	569	689	20.0%	Satisfactory	Satisfactory

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-02-28** **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of Shettyhalli Colony Balance cross roads in Ward No.12 Shettyhalli, in Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/322/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-28 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-05-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.11	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-28** **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of Shettyhalli Colony Balance cross roads in Ward No.12 Shettyhalli, in Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/322/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-28 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	192	192	1.3	98.7	90-100
3	20 mm	7311	7503	50.0	50.0	30-70
4	10 mm	4318	11821	78.8	21.2	10-35
5	4.75 mm	3012	14833	98.9	1.1	0-5
6	Pan	167	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-28** **Date: 05-05-2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of Shettyhalli Colony Balance cross roads in Ward No.12 Shettyhalli, in Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer Reference	:	BBMP/EE/DD/WO/322/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-28 02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	173	173	3.5	96.5	90-100
3	10 mm	3210	3383	67.7	32.3	25-55
4	4.75 mm	1405	4788	95.8	4.2	0-10
5	Pan	212	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Date: 05-05-2018

Lab ID	:	**CP-2018-05-02-28**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of Shettyhalli Colony Balance cross roads in Ward No.12 Shettyhalli, in Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/322/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-28 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-05-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	172	193	19.3	80.7	60-95	75-100	85-100	95-100
4	1.18 mm	201	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	153	547	54.7	45.3	15-34	35-59	60-79	80-100
6	300 micron	216	763	76.3	23.7	5-20	8-30	12-40	15-50
7	150 micron	185	948	94.8	5.2	0-10	0-10	0-10	0-15
8	Pan	52	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-17-10** **Date: 19/05/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains of Shettyhalli Colony Balance cross roads in Ward No.12 Shettyhalli, in Shettyhalli Sub Division.

Agency : Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010

Customer's Reference : BBMP/EE/DD/WO/322/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-2018

Sample ID No : 2018-05-17-10 /03

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	12/05/2018	19/05/2018	149.64 X 149.06 X 150.00	22305	8.499	388.4	17.4	17.8
2	RCC	M20	12/05/2018	19/05/2018	151.90 X 150.23 X 149.42	22820	8.346	411.5	18.0	
3	RCC	M20	12/05/2018	19/05/2018	151.92 X 151.64 X 150.85	23038	8.367	415.5	18.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/05/2018

Lab ID	:	CP-2018-05-17-10
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of Shettyhalli Colony Balance cross roads in Ward No.12 Shettyhalli, in Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/322/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-2018
Sample ID No	:	2018-05-17-10 /05
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	12/05/2018	19/05/2018	150.15 X 150.28 X 151.89	22566	8.192	408.9	18.1	18.3
2	RCC	M20	12/05/2018	19/05/2018	150.11 X 150.23 X 150.13	22551	8.334	416.6	18.5	
3	RCC	M20	12/05/2018	19/05/2018	151.97 X 149.78 X 149.82	22762	8.132	416.7	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/05/2018

Lab ID	:	**CP-2018-05-17-10**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains of Shettyhalli Colony Balance cross roads in Ward No.12 Shettyhalli, in Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/322/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-2018
Sample ID No	:	2018-05-17-10 /09
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	14/05/2018	21/05/2018	149.80 X 150.54 X 150.61	22550	7.951	384.1	17.0	17.9
2	RCC	M20	14/05/2018	21/05/2018	150.92 X 150.90 X 150.70	22775	8.408	423.3	18.6	
3	RCC	M20	14/05/2018	21/05/2018	149.83 X 151.27 X 151.92	22664	8.127	409.8	18.1	

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